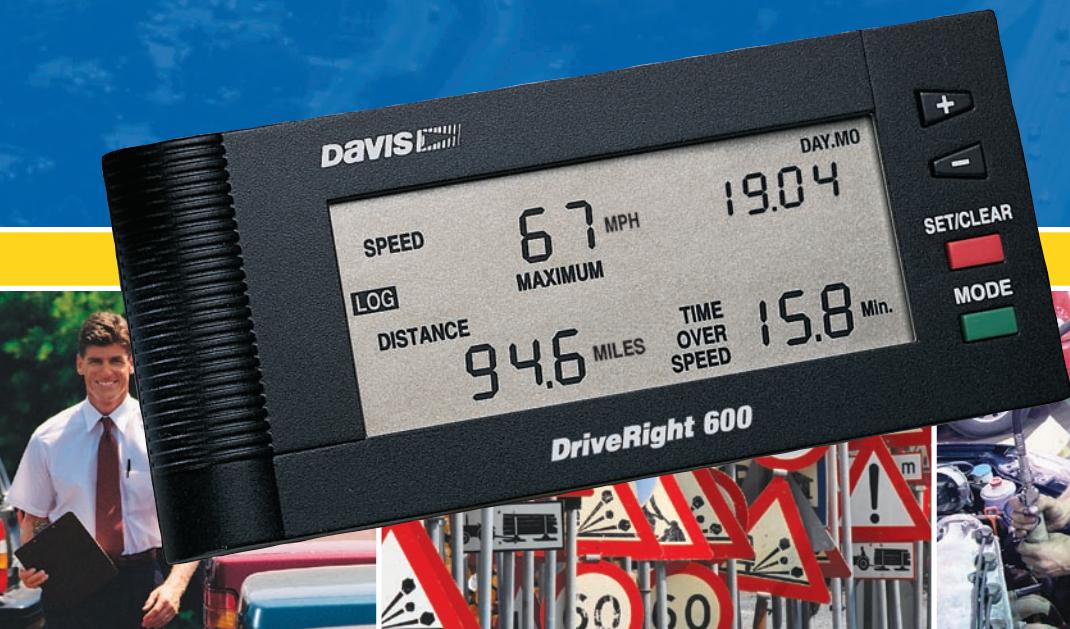


DriveRight®



SOLUTIONS FOR VEHICLE SAFETY AND MANAGEMENT 2005



DAVIS

Solutions for Vehicle Safety and Management

What's New?

- DriveRight® 600 with OBDII
Installation p. 9
- SmartCard System p. 11
- CarChip™ Fleet p. 12

How to Reach Us

As always, please contact one of our customer service representatives if you have any questions. We're always glad to help.

(510) 732-9229 Main telephone line.

(510) 732-7814 For answers to technical questions or help with trouble-shooting.

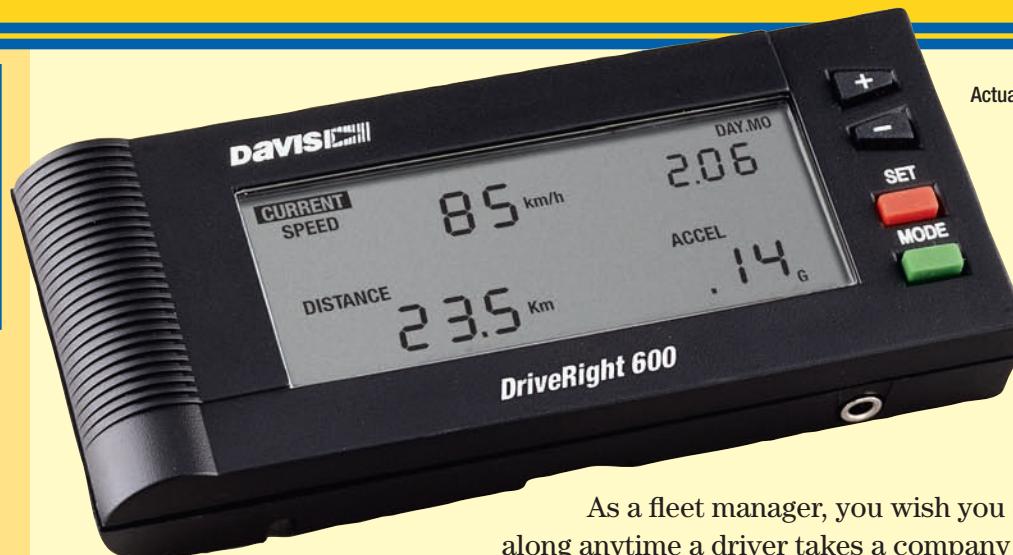
(510) 670-0589 Fax to Customer Service or Tech Support.

www.davisnet.com Visit our web site.

sales@davisnet.com E-mail to Customer Service.

support@davisnet.com E-mail to Technical Support.

info@davisnet.com General e-mail.



Actual size

As a fleet manager, you wish you could ride along anytime a driver takes a company vehicle out of the garage and onto the streets and highways. While you can't sit in the passenger seat every time, you can actively oversee each driver's safety and vehicle performance with DriveRight and CarChip.

The DriveRight System

The DriveRight System offers a fleet management tool for every vehicle in your fleet, from locally-driven passenger vehicles to wide-ranging trucks. Anchored by powerful Fleet Management Software, the system's options and flexibility allow you to customize your fleet management solutions.

Fleet Management Software gives you the information you need to analyze, share, and store driving data. Works with both DriveRight 600 and CarChip Fleet data loggers. (Pages 4 – 7.)

The **DriveRight 600** on-board console with built-in data logger tracks and displays trip data for up to 600 trips. Five installation options allow you to use it in any fleet vehicle, large or small. Our newest and simplest installation plugs right into the OBDII port. (Pages 8 – 9.)

GPS Module collects route information along with speed and the status of digital inputs, and adds critical location details to the DriveRight accident log. (Page 10.)

Four Download Options make transferring data to your PC quick and easy. Choose:

- **Download Cable** included with the software to download directly from the console. (Page 4.)
- **SmartCard System** to simplify administrative tasks, automatically identify drivers, and download data. (Page 11.)
- **Palm Download Kit** for downloading data into a Palm Pilot. (Page 11.)
- **Remote Download Kit** for data transfer via a remote modem. (Page 11.)

CarChip Fleet

CarChip Fleet provides details on engine performance and diagnostics as well as driver and trip information. Uses the same Fleet Management Software as DriveRight 600, so you can mix and match to suit your needs.

The **CarChip Fleet** data logger plugs quickly and easily into the vehicle's OBDII port.

CarChip Fleet with Alarm includes an audible alarm to warn drivers whenever they exceed a company-set limit. (Pages 12 – 13.)



Everything a Fleet Manager Needs

Security

- Know which driver operated the vehicle and when (with DriveRight 600).
- Prevent tampering with data or limits.
- See where your vehicle has been (with DriveRight 600 and GPS Module).
- Authorize specific drivers to start specific vehicles (with DriveRight 600, SmartCard, and Starter Interrupter Kit).
- Log engine performance for optimum repair and maintenance (with CarChip Fleet or CarChip Fleet with Alarm).



CarChip Fleet offers powerful data logging in a tiny, inconspicuous package.

Safety

- Set speed, acceleration, and deceleration limits and know when the driver exceeded them.
- Promote accident prevention; log precise driving details when an accident occurs.
- Provide audible alarm to warn driver when limits are exceeded.
- Self-monitor driving performance (with DriveRight 600's on-board console).
- Verify seatbelt and headlamp use (with DriveRight 600).



The DriveRight 600 on-board console provides instant feedback to drivers.

- Log engine performance and troubleshoot engine repairs (with CarChip Fleet).
- Download data easily to computer; five download options to meet varied needs.
- Store and manage data with ease.
- Choose your database platform with Open Database Connectivity.
- Share, send or post data with built-in e-mail utility.

Simplicity

- Generate useful, adaptable reports with Fleet Management Software to analyze driver trends and events.
- Customize tracking of drivers and vehicles.

- Each year, about 20% of all fleet drivers are involved in an on-the-job vehicle accident, compared to the 6% of workers in other occupations who suffer an on-the-job injury or illness.¹
- Highway accidents are the leading cause of on-the-job fatalities, accounting for almost 25% of the total.²
- Installation of onboard event data recorders can reduce the number of accidents 10 to 30%, lower their severity, and decrease their costs 40 to 60%.³

1. National Association of Fleet Administrators, as quoted in "Rewards of Creating a Fleet Safety Culture," American Society of Safety Engineers, August 2001.

2. Census of Fatal Occupational Injuries Summary, Bureau of Labor Statistics, U.S. Dept. of Labor, September 2002.

3. Event Data Recorders: Summary of Finding by the NHTSA EDR Working Group, National Highway Traffic Safety Administration, August 2001.

Savings

- Lower risk of work-related accidents.
- Reduce wear and tear on vehicle through safer braking and conservative driving.
- Increase vehicle fuel efficiency by discouraging rapid acceleration and speeding.

Fleet Management Software

The information you need at a glance

- Track and compare drivers and vehicles by fleet, group, or location.
- View, print, and save accident logs.
- Protect data with multiple password levels and tamper logs.
- Sort data and create reports according to selected criteria.
- Summarize data by day, week, or longer date ranges.

Thoughtful Reports, Flexible Connectivity

DriveRight's Fleet Management Software allows your computer to work where the rubber meets the road—without it ever going along for a ride.

- Strong reporting and an intuitive interface deliver information in a timely and understandable manner.
- Reports are summarized to give the manager the information needed at a glance.
- More detailed reports, such as exception reports, allow customized tracking of vehicle use and specific driver behavior.
- Powerful ODBC (Open Database Connectivity) compliant design lets you choose the database platform, including Microsoft Access, SQL Server, MySQL, Oracle 8i and 9i, and others.
- Intelligent archiving allows the manager to keep relevant data active while keeping the past safely stored.
- Flexible in acquiring and sharing data. In addition to support for remote or Palm downloading, data can be shuttled via FTP; equally comfortable on a single computer or a network server.
- Generates HTML-based reports via the built-in e-mail utility or for posting on any web server.

8186 Fleet Management Software \$395

Usage Report - Western Fleet - March 2003 - Message (HTML)

To... district3@oilfield.com

Cc... file

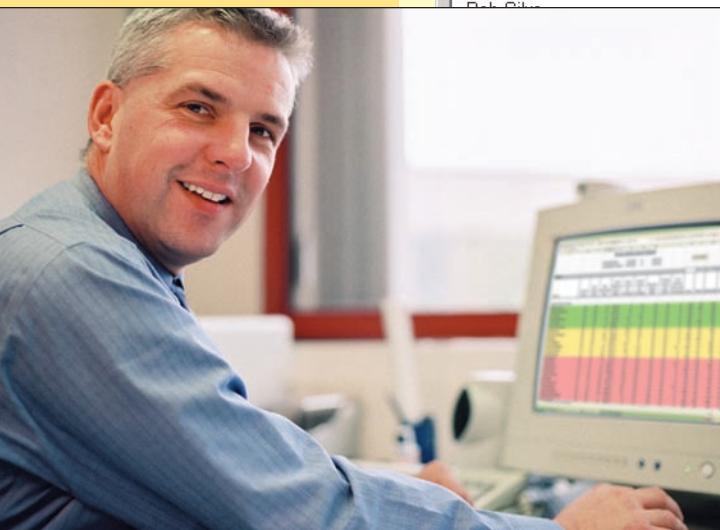
Subject: Usage Report - Western Fleet - March 2003

Driver	Mileage (Miles)	Average Monthly Mileage Past 3 Months	Weekend Driving Mileage [%]	Night Driving Mileage [%]
Allan Samuels	1805	233	607 33	751 41
Anita Watson	4826	21	2475 51	1630 33
Anna Axon	90	0	6 6	18 20
Bill Presley	6600	275	2383 36	3449 52
Bob Jackson	5187	189	1272 24	1592 30
	30	0	5 16	3 10
	5470	40	1445 26	2220 40
	362	54	77 21	69 19
	406	135	74 18	95 23
	5713	856	1702 29	2700 47
	6427	1049	1643 25	2508 39
	4976	376	1164 23	1482 29
	26	0	10 38	0 0

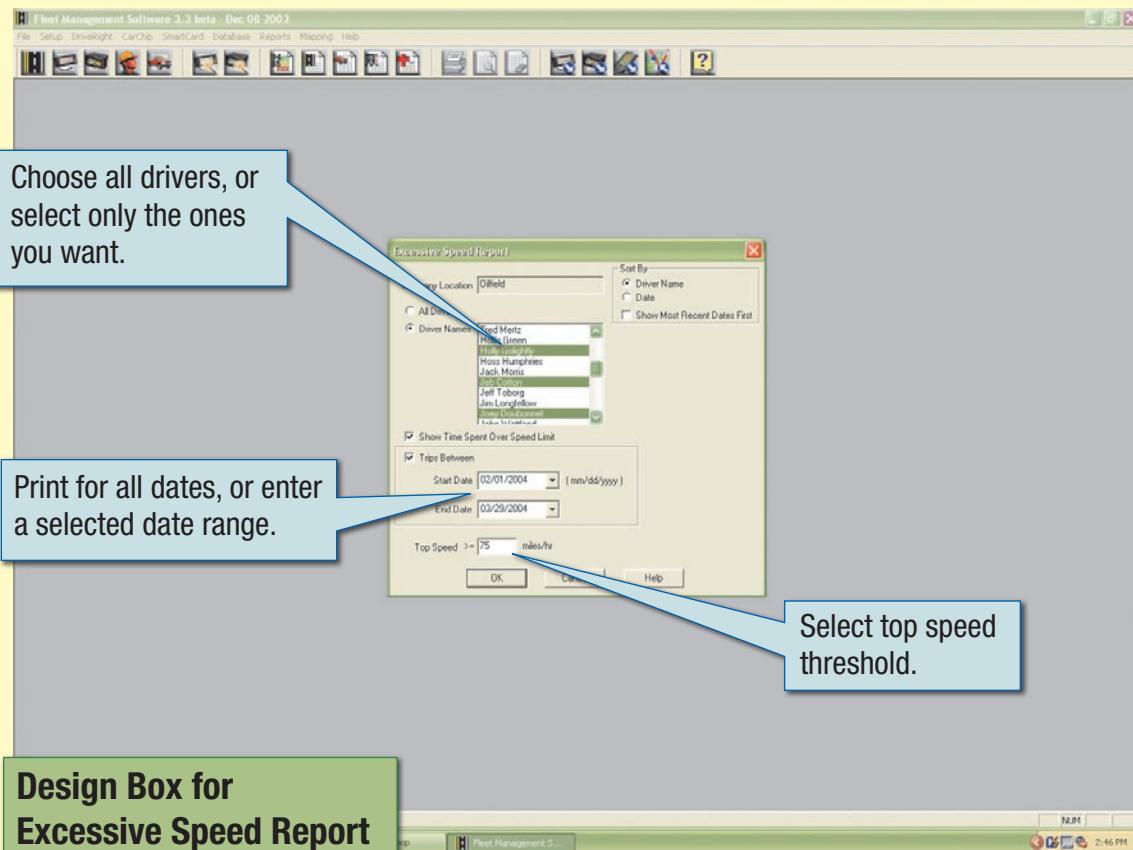
Actual screens may vary.

Includes software on CD, serial cable and power adapter for downloading DriveRight, and USB cable for downloading CarChip. Requires Windows 98SE, ME, NT4.0, XP, or 2000. Requires one free serial port if downloading directly from DriveRight console; see page 11 for other download options. To download DriveRight via USB, add our SmartCard System (page 11) or our optional USB-to-Serial (DB9) cable.

8434 USB-to-Serial Cable for DriveRight \$20



Powerful Reports for Information at a Glance



Design Box for Excessive Speed Report

Driver ID	Driver Name	Trip Starting Date	Trip Starting Time	Trip Top Speed (MPH)	Vehicle ID	License Plate	Time Over Speed	DriveRight Speed Limit (MPH)
9703	Bob Bouchet	02/12/2003					00:00:11	73
9703	Bob Bouchet	03/04/2003					00:00:02	73
9703	Bob Bouchet	03/08/2003					00:00:07	73
9703	Bob Bouchet	04/12/2003					00:00:11	73
9703	Bob Bouchet	06/12/2003					00:00:11	73
9703	Bob Bouchet	07/04/2003	11:13 AM	75	6	1LMR499		
9703	Bob Bouchet	07/08/2003	11:31 AM	77	6	1LMR499	00:00:01	
9703	Bob Bouchet	11/12/2003	05:49 AM	78	6	1LMR499	00:00:01	
9703	Bob Bouchet	12/04/2003	11:13 AM	75	6	1LMR499	00:00:01	
9703	Bob Bouchet	12/08/2003	11:31 AM	77	6	1LMR499	00:00:01	
9703	Bob Bouchet	02/12/2004	05:49 AM	78	6	1LMR499	00:00:11	73
9703	Bob Bouchet	03/04/2004	11:13 AM	75	6	1LMR499	00:00:02	73
9703	Bob Bouchet	03/08/2004	11:31 AM	77	6	1LMR499	00:00:07	73
9703	Bob Bouchet	04/12/2004	05:49 AM	78	6	1LMR499	00:00:11	73
9703	Bob Bouchet	06/12/2004	05:49 AM	78	6	1LMR499	00:00:14	73
9703	Bob Bouchet	07/04/2004	11:13 AM	75	6	1LMR499		
9703	Bob Bouchet	07/08/2004	11:31 AM	77	6	1LMR499		
9703	Bob Bouchet	09/12/2004	05:49 AM	78	6	1LMR499	00:00:11	73
9703	Bob Bouchet	10/04/2004	11:13 AM	75	6	1LMR499	00:00:02	73
9703	Bob Bouchet	10/08/2004	11:31 AM	77	6	1LMR499	00:00:07	73
9703	Bob Bouchet	11/12/2004	05:49 AM	78	6	1LMR499	00:00:07	73
9703	Bob Bouchet	12/04/2004	11:13 AM	75	6	1LMR499	00:00:07	73
9703	Bob Bouchet	12/04/2004	11:31 AM	77	6	1LMR499	00:00:07	73

Driver identified by ID number and name.

Shows all speeds above threshold by date and time.

Identifies vehicles by ID and license numbers.

Top speed listing is easy to scan quickly.

Excessive Speed Report for a Specific Driver

DriveRight has allowed us to meet our vehicle safety goals by controlling and changing the driving behavior of our drivers. Drivers know very well how DriveRight works. The alarm in the DriveRight is set "on" so the driver is aware of every mistake on the road. And no accidents mean time and money savings.

— Fleet Manager, Houston, TX

Powerful Reports for Information at a Glance

Congratulations on producing DriveRight to monitor driving habits. DriveRight is truly a safety device, which not only helps protect lives and property but also helps make driving enjoyable.

— Fleet Electronic Technician,
Port-Harcourt, Nigeria

Color bands group drivers by high, medium and low scores for appropriate follow-up.

Driver safety factors combined into one score and a concise summary.

Filters and reports on specific parameters.

Driver Safety Score Report

Driver Safety Score Report

Cumulative score lets you view progress over time.

Usage Report

Location Name: Oilfield

Period: 01/01/2004 to 01/31/2004

Night: 08:00:00 PM to 06:00:00 AM

Weekend: Friday 08:00:00 PM to Monday 06:00:00 AM

Manager selects "night" and "weekend" definitions.

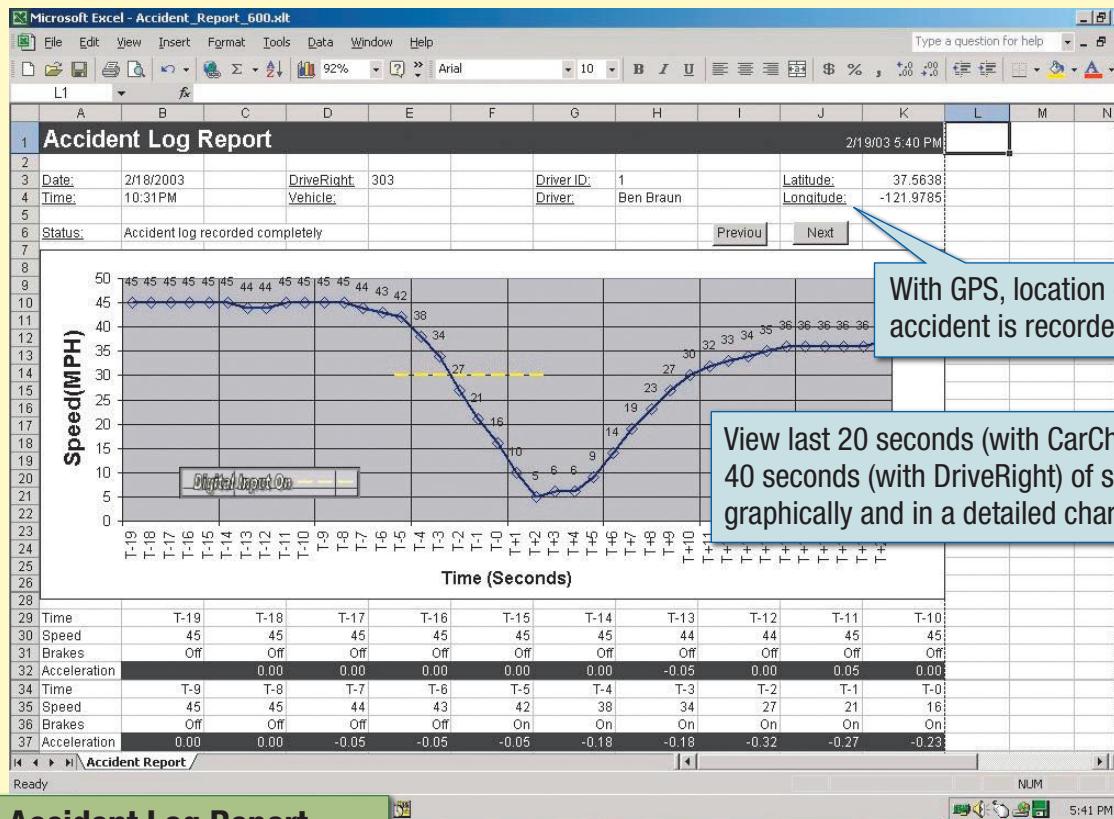
Shows total mileage...

...average monthly mileage...

...and weekend and night mileage.

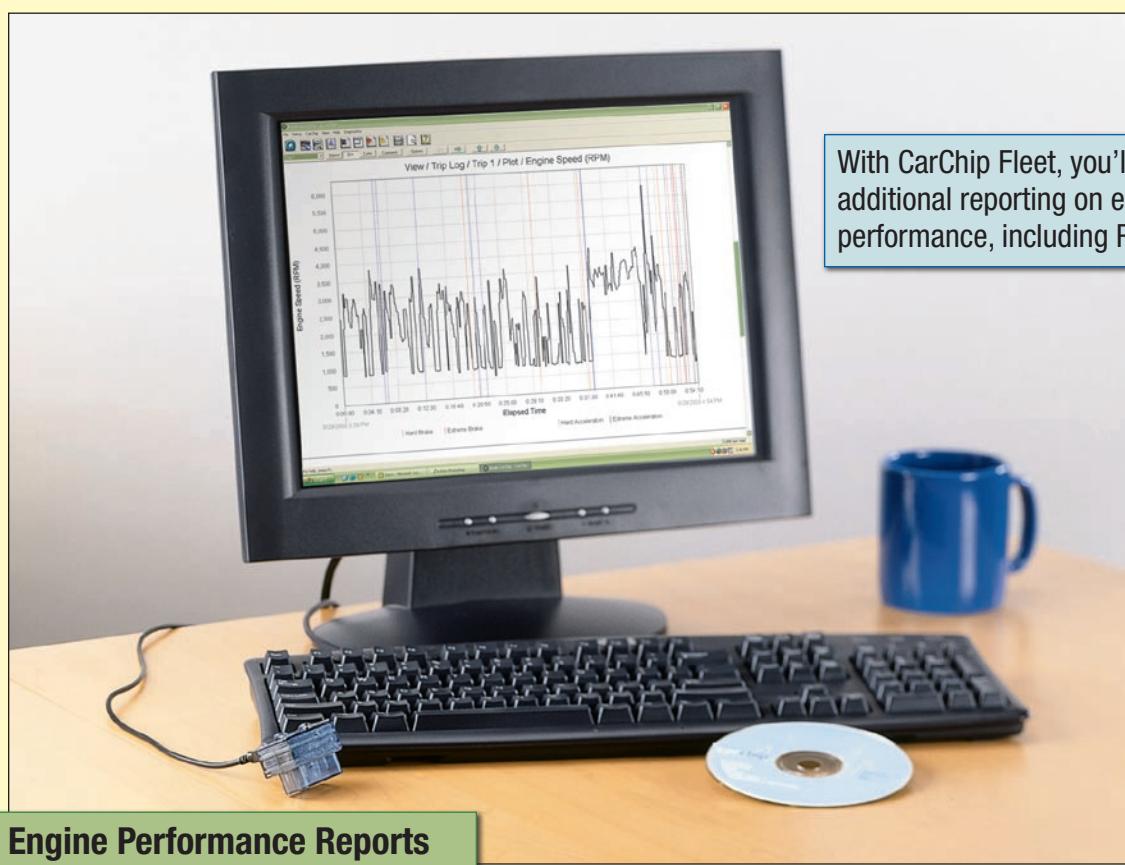
Customizable Usage Report

Powerful Reports for Information at a Glance



Accident Log Report

Report generated using the included Microsoft Excel template.



Engine Performance Reports

In the first year of using DriveRight, our company achieved its goal. Over the two-year period, corporate officials reported zero accidents.

—Fleet Operations Manager,
Hassi Messaoud, Algeria

DriveRight 600

Here's What You Get:

Current Readings

- Speed (in km/h or MPH); max speed
- Acceleration and deceleration
- Distance traveled
- Odometer
- Trip start and end times

Trip Information

- Track, store and display 600 trips
- Select trip type: business, personal, commute, other
- Average and high trip speed
- Time over speed limit
- Number of times speed and deceleration limits were exceeded

Plus

- Alarms for speed, acceleration and deceleration
- Password protection for data and settings
- Tamper indicator
- No loss of data with power interruption
- Supports two digital inputs to record brake lights, headlights, power take off (PTO), or seatbelt use

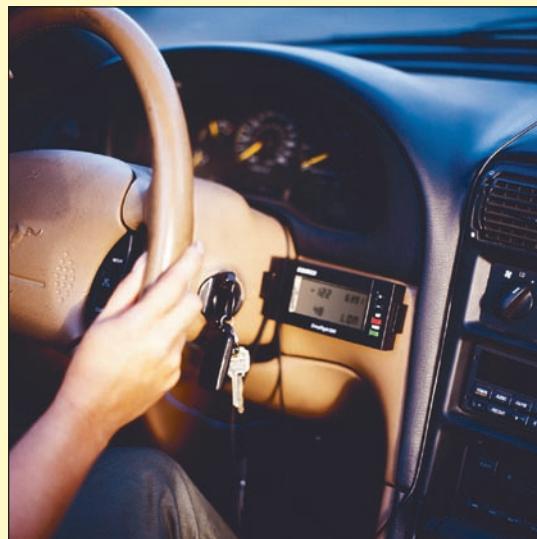
DriveRight 600: The Most Advanced System Yet

Using advanced micro-processor technology, DriveRight 600 constantly monitors your vehicle's speed, sending data to an interactive, on-dash LCD console. Drivers can see their driving performance in real time—like having an on-board driving coach.



features most requested by fleet managers:

- Automatically creates an accident log whenever there is a sudden deceleration. Using the Fleet Management Software, you'll be able to see each of the last 20 seconds of speed before and 20 seconds after the event.
- Even when accident logs are not generated, the console automatically stores each of the last 20 seconds of speed for each of the last 20 trips.
- Allows the monitoring of brake lights, seatbelts, power take off (PTO) switch, headlights, or other features through the use of two digital inputs.
- Protects data and settings with strong security features—even if power is interrupted or removed.
- Monitors multiple drivers through the use of four-digit driver ID codes. Or, use the ID to track destinations instead of drivers.
- Prevents unauthorized changes to data or threshold limits with the use of special security ID codes.
- Creates a "tamper log" each time the display is disconnected or an unauthorized person attempts to change data or limits.



Easy-to-read console rides along on every trip.



Small enough to fit into a pocket, the console can be brought into the office for downloading. Or, choose one of the download options shown on page 11.



DriveRight 600 OBD

Our newest and simplest installation is perfect for vehicles with an OBDII port. Simply plug the connector into the OBDII port, then connect to the DriveRight console.



DriveRight 600 OBD plugs into the OBDII port (found in model-years 1996 or later) located near the driver's seat.

DriveRight 600 VSS

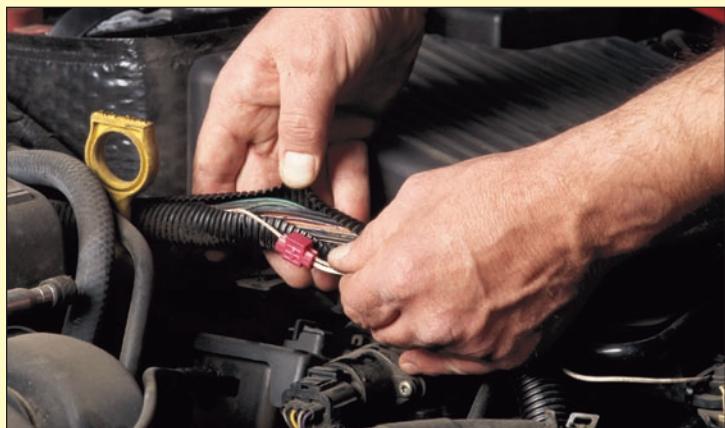
For vehicles with electronic speed sensors (VSS), including most 1992 and later model-years, and some earlier model-years with cruise control.

DriveRight 600 GD

General-duty model for passenger cars and light-duty trucks. Sensor mounts next to vehicle's driveshaft or CV joint. (Not shown.)

DriveRight 600 HD

Heavy-duty model for large trucks, busses, and off-road vehicles. Sensor mounts next to the vehicle's driveshaft or CV joint. Comes with stainless-steel magnet mounting hardware and extra-long cable. (Not shown.)



DriveRight 600 VSS taps into the vehicle speed sensor signal.



All models include the hardware needed to install the sensors along with options for mounting the console.

Which installation is right for my vehicle?

Cars, Light-Duty Trucks & Vans

	OBD	VSS	GD/HD
1996 – Present (USA & Canada)	Green	Green	Green
1996 – Present (Europe & Elsewhere)	Orange	Green	Green
1992 – 1995	Red	Yellow	Green
1991 or Before	Red	Orange	Green

Heavy-Duty Trucks & Busses

	OBD	VSS	GD/HD
1992 – Present	Red	Yellow	Green
1991 or Before	Red	Orange	Green

Tractors & Other Moving Vehicles

	OBD	VSS	GD/HD
All years	Red	Red	Green

Legend

Green	Yellow	Orange	Red
Very likely to certain	Likely	Possible	Not available

Notes:

OBD requires a vehicle with an operational OBDII port. This port was made mandatory in all passenger and light-duty vehicles sold in the USA starting in 1996. The port can be found in some vehicles sold outside of the USA and Canada, but there is no consistent pattern of which makes and models will work, and which won't.

VSS requires a vehicle that produces a pulsing wire that varies with speed. This is a signal commonly used by a vehicle's cruise control, thus vehicles which have cruise control as an option are likely to have this pulsed wire. The location of the wire varies from vehicle to vehicle and from year to year.

GD and HD consist of a reed-switch sensor and a magnet that is mounted on a driveshaft or other spinning point on a vehicle. The reed switch counts the revolutions of the magnet, and reports that pulse to the console. The installer calibrates each console to match the frequency of the revolutions to the vehicle's speed.

8156OBD DriveRight 600 OBD \$425

8156VSS DriveRight 600 VSS \$375

8156GD DriveRight 600 General Duty \$375

8156HD DriveRight 600 Heavy Duty \$395

GPS Module

Customizable GPS Module

- For maximum GPS location data, sample as frequently as once every second.
- For maximum time between downloads, sample as infrequently as once every 15 minutes.

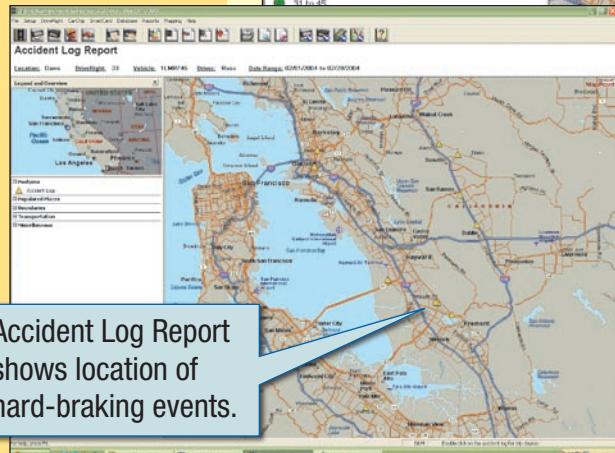
Logs Hours of Location Data

- At one-second intervals, download every hour; at 15-minute intervals, download every 650 driving-hours.
- Each interval point includes the status of digital inputs as well as speed and direction.
- Location accuracy as close as 30 feet (9 m).

Use with Microsoft MapPoint or Streets & Trips

- Show trip route and the location of each stop.
- Determine driver safety performance for specific roadways.
- Assess the severity of an incident based on the vehicle's location.

Screens created using Microsoft MapPoint. Actual screens will vary.



GPS Module Adds Important Details to Vehicle Record

Adding our optional GPS module to your DriveRight 600 brings even more driving details into focus.

View GPS data on DriveRight console.

- See the current GPS position and heading on the console's latitude and longitude screens.
- GPS data is synchronized with speed and other key information collected by the console.

Enhances safety reporting in Fleet Management Software.

- Adds latitude and longitude to the Accident Report.
- When brake lights are monitored using digital inputs, allows you to see when and where the brakes were applied.

Use with third-party mapping programs.

- Export data to a third-party mapping program such as Microsoft MapPoint or Streets & Trips.
- Create a map showing the route taken as well as each start and stop.
- Plot the high speed samples and quickly judge whether or not a driver was driving appropriately for a particular roadway.

Easy to install and use.

- Simply plug the unit into the DriveRight console and position the "hockey puck" antenna on the dashboard.
- Moves easily from one vehicle to another. Rotate several modules through your fleet as needed.
- May be added to previously installed DriveRight 600s at any time.



8157 GPS Module for DriveRight 600 \$295

A callout box points to the map with the text: "Each trip for the day is shown by a different color."

A callout box points to the map with the text: "Colored dots show different speeds at a glance."

The screenshots illustrate the enhanced functionality provided by the GPS module, allowing users to view detailed driving routes and speeds directly on their computer screens using third-party mapping software.

Quickly Move Information from Collection Point to Decision Point

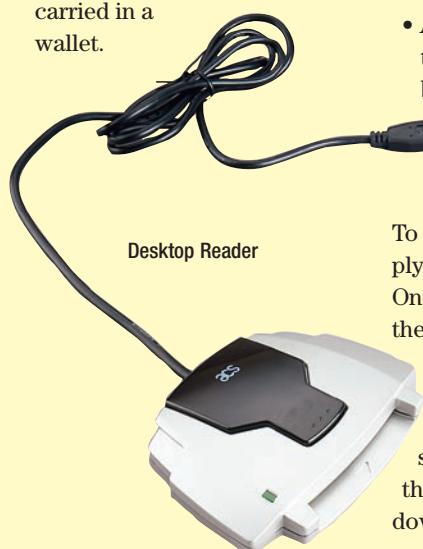
Data that is difficult to transfer or access is not much better than no data at all. DriveRight 600 makes the process of transferring information straightforward, fast, and flexible, putting data into the hands of decision makers quickly and easily. Our Fleet Management Software includes the cables needed to download driving data directly from the console. Or, choose one of the following options to make downloading even quicker and easier.



DriveRight SmartCard System

The DriveRight SmartCard System provides extra security and convenience. Use it to authenticate driver identity, download driving data, and simplify administrative tasks. The system consists of four parts:

- **A SmartCard** for each driver. Available in packs of ten, the SmartCard can be worn on a lanyard, clipped to a belt, or carried in a wallet.



- An **On-Board Reader** for each vehicle, to be connected to the DriveRight 600 console inside the vehicle. Includes one SmartCard.
- An optional **Starter Interrupter Kit** for each vehicle, to ensure that it can be started by designated drivers only.
- A **Desktop Reader** connected to the USB port on your PC back at the office, to be used in conjunction with the Fleet Management Software.

To use the system, the driver simply inserts his SmartCard into the On-Board Reader before starting the vehicle. The driver's ID will automatically be relayed to the console for authentication. At the end of the trip, he simply presses a button, and the driving data is automatically downloaded onto the SmartCard.



Credit card-size card stays with the driver.



Palm Download Kit

Allows you to download data from a DriveRight console to a Palm Pilot via an interface cable. No need to remove the console from the vehicle. Even the basic Palms have enough memory to hold data for dozens of vehicles, allowing one person to quickly capture an entire fleet's information. The data can then be downloaded into your PC using a single Fleet Management Software menu selection.

8181 Palm Download Kit \$95



Remote Download Kit

Allows drivers to download data remotely by connecting the DriveRight console directly to an external modem. Ideal for fleets that are spread out over large areas. When the modem dials into a computer running the Fleet Software in a special hosting mode, the data will be transferred automatically.

8188 Remote Download Kit \$95

8104 SmartCard On-Board Reader \$150
8108 SmartCard Desktop Reader \$80
8112 SmartCards, Pack of 10 \$100
8116 Starter Interrupter \$20

Easy Plug-and-Go Installation

1. Locate your car's OBDII connector.

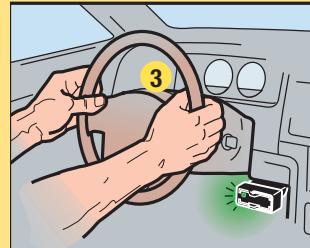
You'll find it within 3 feet of the driver's seat.

2. Plug in CarChip.

The blinking light tells you it's installed and ready.

3. Start driving.

CarChip starts logging data immediately.



For model-years 1996 and later. Supports the following OBDII protocols: J1850-41.6, J1850-10.4, ISO 9141, KWP 2000 (ISO 14230), CAN (Controller Area Network, ISO 11898). E-OBDII may or may not be supported by CarChip Fleet. To ascertain your vehicle's OBD protocol, check with the manufacturer. See page 9 for additional notes on compatibility.



Plugs instantly and unobtrusively into the OBDII port in your car or truck.

A Simple and Inexpensive Option for Fleet Management

What if you could read your car's mind—simply and inexpensively?

With **CarChip Fleet**, knowing what is going on behind the wheel and under the hood is as simple as “plug-and-go.” Just plug the tiny data logger into the vehicle’s on-board diagnostic port (OBDII), and begin recording trip time and date, speed, distance, accelerations, and decelerations immediately.

- Records up to 300 hours of driving data, depending on the logging interval.
- Accident log records the last 20 seconds of speed before a complete stop.
- CarChip Fleet with Alarm also provides an audible alarm to warn drivers whenever they exceed a speed, acceleration, or deceleration limit.

Engine performance logging and troubleshooting.

- Monitors any 4 out of 23 selectable engine parameters, including RPM, at intervals of 5 to 60 seconds.
- Logs diagnostic trouble codes and “freeze-frame” readings that show the status of various engine parameters at the time.
- After reviewing the trouble code, managers can quickly and easily set CarChip to turn the “check engine” light off.

Easy to use, inconspicuous, and inexpensive.

- A single CarChip data logger can be switched between vehicles or drivers as needed.

- Downloads quickly and easily to our Fleet Management Software (sold separately) for sorting, analyzing, and e-mailing data.

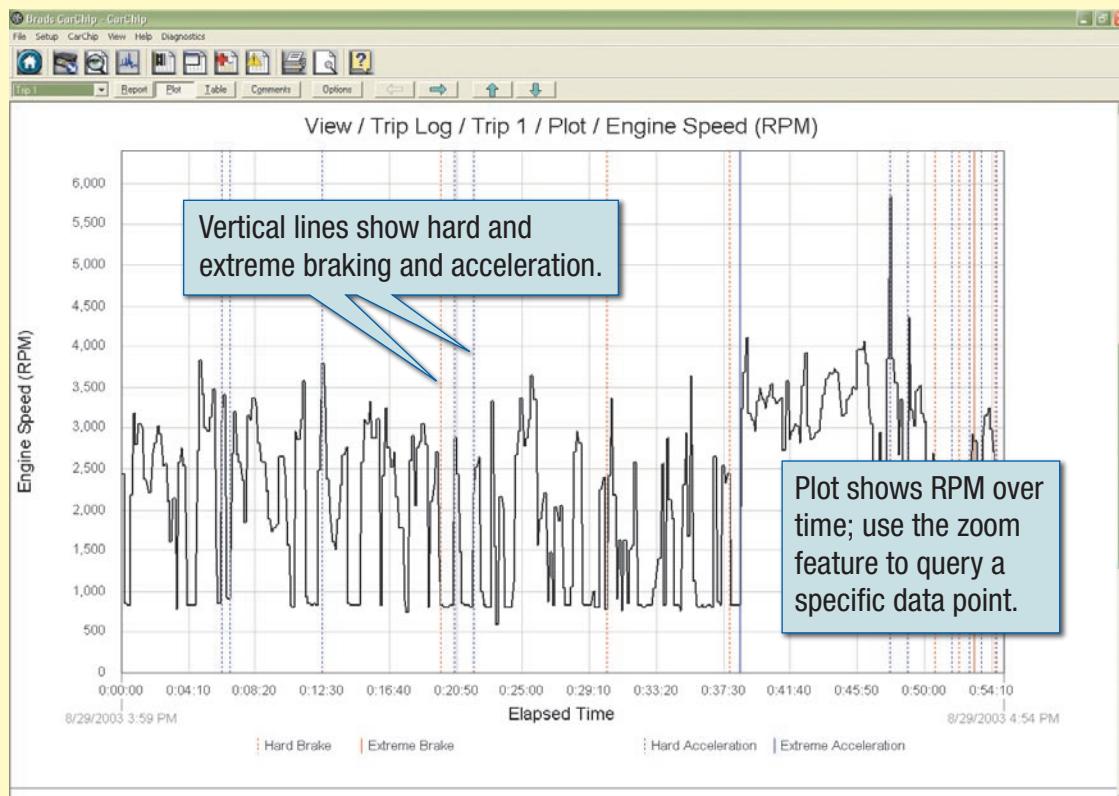
Offers fleet managers the flexibility they need.

- Use CarChip Fleet in some vehicles, DriveRight 600 in others—our Fleet Management Software supports both.
- Requires only one software package per location, making it easy to download and track driving data, no matter which unit your drivers are using.

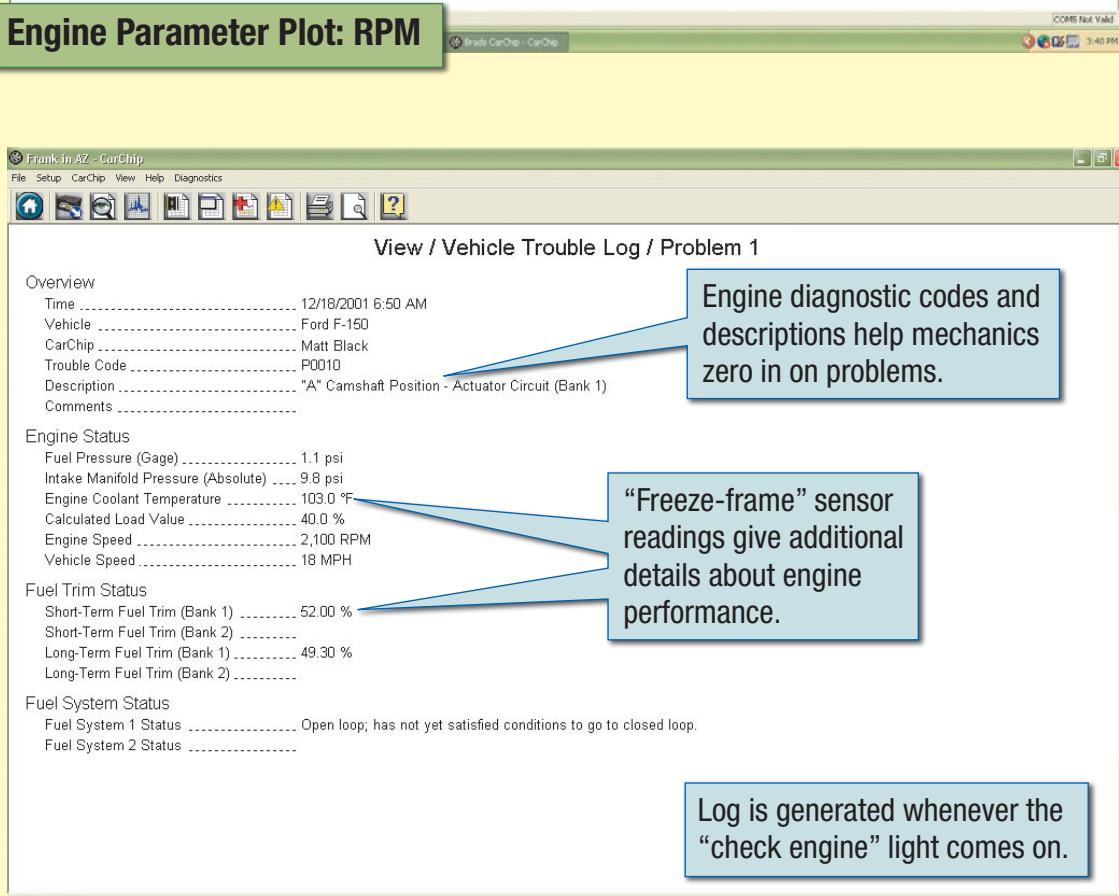
Like DriveRight 600, CarChip Fleet provides drivers an incentive to focus on safe driving, and gives managers the ability to assess and reward their efforts. CarChip's ease of use and additional engine performance logging make it a valuable addition to your fleet management program.

8241 CarChip Fleet \$199

8245 CarChip Fleet with Alarm \$219



Engine Parameter Plot: RPM



Trouble Code Report

CarChip Fleet: Simple & Effective

- Tiny data logger is inconspicuous while in use
- One CarChip can be swapped between several vehicles
- Records speed every 5 seconds

Engine Performance

Monitors any 4 selectable engine parameters including

- RPM
- Throttle Position
- Engine Load
- Coolant Temperature
- Intake Manifold Pressure
- Air Flow Rate
- Intake Air Temperature
- Timing Advance
- Fuel Pressure
- Fuel System Status
- Short- and Long-Term Fuel Trim
- Oxygen Sensor Output Voltage
- Battery Voltage

Accident Log

- Records critical last 20 seconds of speed

When using CarChip Fleet with the Fleet Management Software, you'll also get all the reporting capabilities shown on pages 4 – 7. Reporting on engine performance and diagnostic trouble codes is available with CarChip Fleet only; it is not available with DriveRight 600.

Actual screens may vary.

Installation Kits

Warranty

We warrant our products to be free of defects in material and workmanship for one year from the date of original purchase. While we make every effort to carefully manufacture our products to the highest standards of quality, occasionally parts may be found to be missing, defective, or damaged.

If you have a defective part, return the product to us, shipping charges prepaid. Include proof of purchase and a written explanation of the trouble. During the warranty period, we will, at our option, either repair or replace the product free of charge. This warranty does not cover damage due to improper installation or use, negligence, accident, or unauthorized service, or to incidental or consequential damages beyond the Davis products themselves. Implied warranties are limited in duration to the life of this limited warranty.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights. You may have other rights, which vary from state to state and country to country.

Important Safety Notice

CarChip and DriveRight OBD have been carefully designed and tested to comply with the OBDII protocols used on vehicles sold in the USA, model-year 1996 or later. However, some vehicle models are not in full compliance with these protocols. In addition, the computer control systems on any given vehicle may be malfunctioning or out of spec, as may be the sensors used by these systems.

Before installing CarChip or DriveRight OBD, be sure to review the list of known exclusions on our website at www.carchip.com, where you'll also find the latest software and firmware downloads. For an in-depth discussion of OBDII anomalies, we recommend The Equipment and Tool Institute's website at www.etools.org.

While our testing and the experience of thousands of CarChip and DriveRight OBD users have shown the units to be safe and reliable, there is an inherent risk in adding any aftermarket product that may potentially affect the operation or drivability of your vehicle. Should you be concerned about the operation of your vehicle at any time while using any of our products, you should pull over, off the roadway, immediately or as soon as it is safe to do so. Remove the unit from the OBDII port, and consult a licensed mechanic or automobile service center.

Report any issues or concerns to our Technical Support Department at (510) 732 7814 or support@davisnet.com. We are open Monday through Friday, 7:00 a.m. to 5:30 p.m. Pacific Time. We maintain an active database of the feedback we receive, and your comments can help us continuously improve the product.

Accessories

Extra Display Console

When several drivers share vehicles, give each driver his own display console to keep all his data in one place. Lithium battery included.

8178 Extra Display Console for DriveRight 600 \$295



Display Console

Tension Tool for Stainless Steel Tie

For use with DriveRight 600 Heavy Duty. Tension Tool is a screw-driver-type tightening tool that allows the installer to tighten the stainless-steel heavy-duty strap. The Deluxe Tension Tool is a ratcheting device and will provide extra efficiency for multiple installations.

8196 Tension Tool for Stainless Steel Tie \$15

8195 Deluxe Tension Tool for Stainless Steel Tie \$245



Tension Tool



Deluxe
Tension Tool



USB to Serial
Cable

Extra Installation Kits

For information on which installation is right for your fleet, see page 9.
The perfect solution if you want to use one DriveRight display console in multiple vehicles. Each installation kit includes a manual and the parts necessary to outfit a vehicle for a DriveRight console.

The General-Duty Kit can mount on any vehicle, and is sufficient for most cars and light duty vans and pickup trucks.

The Heavy-Duty Kit contains upgraded mounting hardware and longer wires for harsher conditions. It can be mounted on any vehicle, and is designed to handle the needs of large trucks, busses and off-road vehicles. Note: Use of a tension tool is recommended during installation.

The VSS Kit delivers a speed reading by tapping the vehicle's existing vehicle speed sensor signal. (Please check to ensure that the vehicle has a VSS signal, since not all models do.) Because there is no exposed sensor, this method works especially well for off-road vehicles.

The OBD Kit includes the sensors and installation hardware needed to install DriveRight 600 in vehicles with an OBDII port found on passenger cars, model-year 1996 and later.

8160GD General-Duty Installation Kit \$100

8160HD Heavy-Duty Installation Kit \$120

8160VSS VSS Installation Kit \$100

81600BD OBDII Installation Kit \$150

CarChip™ and DriveRight 600®			8241 & 8186	8245 & 8186	8156	8156 & 8186	Which system is right for your fleet?
FEATURES & OPTIONS	List Price	Data logger or on-board display console	\$199	\$219	\$375–425	\$375–425	<p>DriveRight 600:</p> <ul style="list-style-type: none"> • Best for vehicle pools with multiple drivers, or for fleets of vehicles without OBDII ports. • Ride-along console provides feedback for driver and records trip details. Add-on features allow for GPS, OBD installation, SmartCard security, heavy-duty installation, and Palm or remote data transmission. <p>CarChip Fleet:</p> <ul style="list-style-type: none"> • Simple installation. Best for fleets that have OBDII ports and where GPS and driver ID verification are not required. • CarChip provides engine performance data and troubleshooting, in addition to trip data. Alarm option available.
	Installation	CarChip Fleet with Fleet Management Software	CarChip Fleet with Alarm with Fleet Management Software	DriveRight 600 Display Console Only	DriveRight 600 with Fleet Management Software		
	Installs using	OBDII connector	OBDII connector	OBDII, VSS, driveshaft, or CV joint	OBDII, VSS, driveshaft, or CV joint		
	For model years	1996 and later	1996 and later	Any	Any		
	For cars, vans, and pickup trucks	●	●	●	●		
	For large trucks, off-road vehicles, & busses			●	●		
	Professional installation recommended			●	●		
	Estimated installation time	15 seconds	15 seconds	1–2 hours	1–2 hours		
	Download to Computer	Using included USB cable	●	●			
	Using included serial cable				●		
	Via modem using optional kit (add'l \$95)				●		
	Via Palm Pilot using optional kit (add'l \$95)				●		
	Via SmartCard using optional kit (add'l \$345)				●		
	Maximum	Number of trips	no limit	no limit	600 trips	600 trips	
	Hours of driving time	300 hours *	300 hours *	435 hours	435 hours		
DRIVER PERFORMANCE	Backup Battery	Battery type	Internal	Internal	3-volt lithium	3-volt lithium	
	Expected battery life if unit not in vehicle	10–15 years	10–15 years	2 months	2 months		
	Expected battery life under normal usage	10–15 years	10–15 years	3–5 years	3–5 years		
	Acceleration & Deceleration	Hard accelerations	●	●	●	●	
	On-board alarm for hard accelerations		●	●	●	●	
	Hard decelerations	●	●	●	●	●	
	On-board alarm for hard decelerations		●	●	●	●	
	Accident Log	After hard deceleration, speed every second for the last 20 seconds before a complete stop.	●	●			
	Speed every second for 20 seconds before and 20 seconds after hard deceleration.					●	
	Distance	Distance traveled per trip	●	●	●	●	
ENGINE	GPS	Optional GPS position logging (add'l \$295)					
	Trip Time	Start and end time	●	●	●	●	
	Total time in motion	●	●	●	●	●	
	Idle time	●	●				
	Weekend/night driving time	●	●			●	
	Trip Type	Toggle trip type (business or personal)			●	●	
	Speed	Recording interval	Fixed 5 seconds	Fixed 5 seconds	Selectable 1–30 sec	Selectable 1–30 sec	
	Top speed	●	●	●	●	●	
	Average speed	●	●	●	●	●	
	Time over user-set speed limit	●	●	●	●	●	
SECURITY	Time spent within user-set speed ranges	●	●				
	On-board alarm for high speed		●	●	●	●	
	Seatbelt Use	If selected as one of two digital inputs					
	Diagnostic trouble code with "freeze-frame" sensor readings	●	●				
	Ability to reset "check engine" light	●	●				
SECURITY	Logging of user-selectable engine parameters *	●	●				
	PIN code to adjust settings	●	●	●	●	●	
	Driver ID code			●	●	●	
	Tamper indicator on display console			●	●	●	
	Tamper log may be viewed in software	●	●			●	
SECURITY	Vehicle login code restrictions					●	

* Any 4 out of 23 possible, including RPM, throttle position, engine load, fuel pressure, fuel system status, short-term fuel trim, long-term fuel trim, battery voltage, timing advance, coolant temperature, air flow rate, intake air temperature, intake manifold pressure, and oxygen sensor voltage.

* 300 hours maximum. Actual storage time depends on logging internal and number of parameters selected.



We have ways of making your fleet talk.



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FLEET



DriveRight®

DAVIS
Davis Instruments

3465 Diablo Avenue, Hayward, CA 94545-2778

FORWARDING SERVICE REQUESTED